

I can write and solve equations to find the missing number.

### Lesson 4-2

11/6/19

- (1) Create a "Let Statement" Chart
- (2) Box keywords and translate into equation.
- (3) Solve the equation for the missing values!
- (4) Did you answer the question?

Warm Up:

Six less than four times a number is 42.

What is the number?

Let  
 $x = \#$

$$\begin{array}{r}
 4x - 6 = 42 \\
 \hline
 4x \quad + 6 \quad | \quad + 6 \\
 \hline
 \quad \quad \quad 48 \\
 \hline
 \quad \quad \quad 4 \\
 \hline
 \boxed{x = 12}
 \end{array}$$

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Example 1: Eight + more than 2 x a number = 28.

Find the number.

Let  $x = \#$

$$\begin{array}{r}
 8 + 2x = 28 \\
 \hline
 -8 \quad \quad | \quad -8 \\
 \hline
 \quad 2x = 20 \\
 \hline
 \quad \frac{2x}{2} = \frac{20}{2} \quad \boxed{x = 10!}
 \end{array}$$

You Do:

(1) Nine more than a number is 13. Find the number.

$$\begin{array}{r}
 9 + x = 13 \\
 \hline
 -9 \quad \quad | \quad -9 \\
 \hline
 \quad x = 4 \\
 \hline
 \boxed{x = 4}
 \end{array}$$

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**Example 2:** Nine less than three times a number is 54.  
Find the number.

Let  $x = \#$

$$\begin{array}{r} 3x - 9 = 54 \\ +9 \quad +9 \\ \hline 3x = 63 \\ \frac{3x}{3} = \frac{63}{3} \end{array}$$

You Do: #

$$\boxed{x = 21}$$

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(2) A number decreased by 10 is 16. What is the number?

let  $x = \#$

$$\begin{array}{r} x - 10 = 16 \\ +10 \quad +10 \\ \hline x = 26 \end{array}$$

(3) Eleven increased by twice a number is 17. Find the number.

$$11 + 2x = 17$$

$$\begin{array}{r} 2x = 17 - 11 \\ \frac{2x}{2} = \frac{6}{2} \\ x = 3 \end{array}$$

let  $x = \#$

$$\boxed{x = 3}$$

(4) Eight less than five times a number is 22. Find the number.

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Example 3: Ten less than twice a number is the same as 7 times the number. Find the number.

$$\text{Let } x = \#$$

$$2x - 10 = 7x$$

$$\underline{-2x} \qquad \underline{-2x}$$

$$\frac{-10}{5} = \frac{5x}{5}$$

$$\boxed{-2 = x}$$

Example 4: A number increased by 30 is 14 decreased by 3 times the number. Find the number.

(7) Nine more than 5 times a number is equivalent to 2 times the number. Find the number.

(8) Twice a number is the same as 6 more than 8 times the number.